

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

11/04/2003

MORRISON & FOERSTER LLP 3811 VALLEY CENTRE DRIVE SUITE 500 SAN DIEGO, CA 92130-2332

EXAMINER ZUCKER, PAUL A

ART UNIT

PAPER NUMBER

1621

DATE MAILED: 11/04/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975 136	10/10/2001	Dexu Zhu	524022000100	8877

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING OR PREVENTING BACTERIAL INFECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	02/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax

(703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 7590 11/04/2003 25225 MORRISON & FOERSTER LLP Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. 3811 VALLEY CENTRE DRIVE SUITE 500 SAN DIEGO, CA 92130-2332 (Depositor's name (Signature) (Date FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 09/975,136 10/10/2001 Dexu Zhu 524022000100 8877 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING OR PREVENTING BACTERIAL INFECTION **PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE APPLN. TYPE SMALL ENTITY ISSUE FEE 02/04/2004 nonprovisional YES \$665 \$300 \$965 **EXAMINER** ART UNIT CLASS-SUBCLASS ZUCKER, PAUL A 1621 514-535000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent Fee Address" indication (or "Fee Address" Indication form attorneys or agents. If no name is listed, no name PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee A check in the amount of the fee(s) is enclosed. ☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _______(enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO	, F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,136	09/975,136 10/10/2001		Dexu Zhu	524022000100	8877
25225	7590	11/04/2003	•	EXAMINER	
MORRISON & FOERSTER LLP 3811 VALLEY CENTRE DRIVE				ZUCKER, PAUL A	
SUITE 500	CENTRE	DRIVE		ART UNIT	PAPER NUMBER
SAN DIEGO,	N DIEGO, CA 92130-2332			1621	
				DATE MAILED: 11/04/2003	3

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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25225	7590 11/04/2003		EXAM	INER	
MORRISON &	FOERSTER LLP		ZUCKER, PAUL A		
3811 VALLEY C SUITE 500	ENTRE DRIVE		ART UNIT	PAPER NUMBER	
SAN DIEGO, CA	92130-2332		1621		

DATE MAILED: 11/04/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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·	Application No.	Applicant(s)
Notice of Allowability	09/975,136	ZHU ET AL.
Notice of Allowability	Examiner	Art Unit
	Paul A. Zucker	1621
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included not will be mailed in due course. THIS
1. This communication is responsive to <i>Applicants' faxed sec</i>	ond supplemental amendment of 10	<u>0/29/2003</u> .
2. X The allowed claim(s) is/are 5-18,20 and 22-24 renumbered		
3. X The drawings filed on 10 October 2001 are accepted by the		
4. Acknowledgment is made of a claim for foreign priority und		
a) ☐ All b) ☐ Some* c) ☒ None of the:		
1. ☑ Certified copies of the priority documents have	been received.	
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority doc		
International Bureau (PCT Rule 17.2(a)).		3.17
* Certified copies not received:		
Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provis	ional application).
(a) The translation of the foreign language provisional a		
6. Acknowledgment is made of a claim for domestic priority ur		
o	3	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply control this application. THIS THREE-MO	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas	itted. Note the attached EXAMINEF on(s) why the oath or declaration is	R'S AMENDMENT or NOTICE OF deficient.
8. CORRECTED DRAWINGS must be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTC	-948) attached
1) hereto or 2) to Paper No		
(b) ☐ including changes required by the proposed drawing of	correction filed, which has b	een approved by the Examiner.
(c) ☐ including changes required by the attached Examiner'		
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	84(c)) should be written on the drawi	ngs in the front (not the back) of
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T	SIT OF BIOLOGICAL MATERIAL IN THE DEPOSIT OF BIOLOGICAL MA	must be submitted. Note the TERIAL.
Attachment(s)		
1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material SUPERVISORY PATENT E) GROUP 150	4⊠ Interview Summ 6□ Examiner's Ame 8⊠ Examiner's Stat 9□ Other .	al Patent Application (PTO-152) eary (PTO-413), Paper No. <u>18</u> . endment/Comment ement of Reasons for Allowance

Application/Control Number: 09/975,136 Page 2

Art Unit: 1621

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: The instantly claimed method for the treatment or prevention of *Helicobacter pylori* (*H.pylori*) infection is neither disclosed nor fairly suggested by the closest art of record: Imai et al (JP 63218652-A2 09-1988, abstract). Imai teaches (Abstract, lines 1-2) compounds of instant formula (I) where n=1 and R= C₆ aryl (phenyl). Imai further teaches (Abstract, lines 9-12) that these compounds can be employed in the prevention of ethanol-induced ulcers. Imai, however, neither teaches nor fairly suggests that these compounds may be used to treat or prevent *H.pylori* infections. The instantly claimed compounds, methods, compositions and kits are therefore patentable over the teachings of Imai.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. All Post-Allowance correspondence concerning this application must be mailed to the following address: BOX ISSUE FEE, COMMISIONER FOR PATENTS, WASHINGTON, DC 20231 or fax them to The Office of Patent Publications at 703-308-5083 in order to expedite the handling of such correspondence (amendments) Application/Control Number: 09/975,136

Art Unit: 1621

under 37 CFR 1.132; information disclosure statements, formal drawings, etc.)

Sending Post-Allowance papers to the technology center will only cause delays in matching papers with the case.

Contact Information

For information concerning:

- > Status of correspondence sent <u>after</u> receipt of the Notice of Allowance
 - ♦ Contact Correspondence Branch at 703-305-8027
- ➤ Notices of Abandonment for <u>failure to pay the Issue Fee</u> or <u>Failure to submit</u> formal drawings Contact 703-305-5358/5340 or by fax 703-305-8755
- ➤ Issue Fees that <u>have not been paid for at LEAST 3 months</u>, but no issue notification has been received Contact 703-305-8263
- ➤ Non-receipt of the <u>Letters Patent Contact 703-305-8263</u>
- > Status of application after the Issue Fee has been paid
- > Status of Issue Fee payments or status of receipt of Issue Fees
- > Status of allowed applications after receipt of drawings or fees
- Status of receipt of formal drawings <u>after allowance</u>
- ♦ Contact Customer Service at 888-786-0101 or 703-308-6789 or 703-305-8497 or 703-305-8495 or 703-308-6790 or by fax at 703-308-5065

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A. Zucker whose telephone number is 703-306-0512. The examiner can normally be reached on Monday-Friday 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 703-308-4532. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Application/Control Number: 09/975,136

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Paul A. Zucker, Ph.D. Patent Examiner Technology Center 1600

> Johann Richter, Ph.D., Esq. Supervisory Patent Examiner Technology Center 1600